

**DILATATION CATHETER EMPLOYING BALLOON MADE FROM PEN
BASED HOMOPOLYMER OR RANDOM COPOLYMER**

5 **ABSTRACT**

 A balloon for a medical device has a structural layer of a highly
crystallized PEN polymer material. The PEN polymer material a polyethylene
naphthalate homopolymer or a crystallizable copolyester made up of residues of ethylene
10 glycol, naphthalene dicarboxylic acid (NDC) and at least one member of the group (PA)
consisting of terephthalic acid and isophthalic acid. The NDC groups make up about 5%
or more of the sum of NDC and PA groups in the copolymer. The balloon is
characterized by an ability to withstand a hoop stress of at least 35,000 psi without
bursting.

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